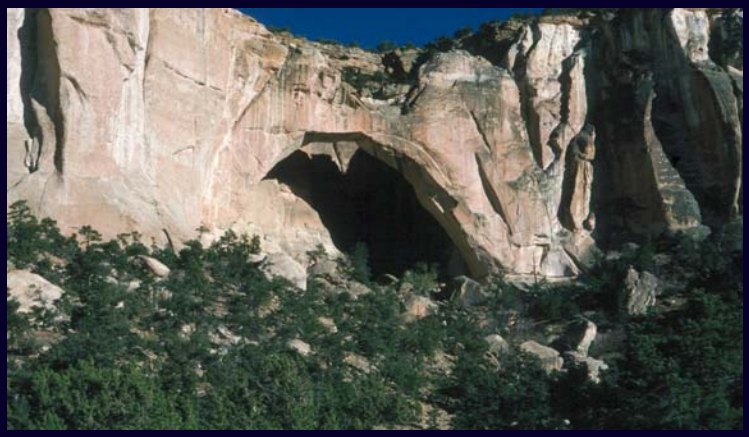
Visual Resource Management

Bureau of Land Management

Viewshed Analysis

Objective

Students will understand how computer-assisted viewshed analysis can help solve problems related to visual resource management



Land Ownership Status in Wyoming

Historic Trails in Wyoming

Linear Corridors Through Large Blocks of Public Lands

Historic Trail Corridors

Historic Trails in Landscapes That Haven't Changed in 150 Years

Enter Oil & Gas

- The Question is:
  - *How do you Accommodate Oil & Gas or other Development and Still Retain the Existing Character of the Landscape?*
- (Hint: i.e., Meet a Class II VRM Objective)

Need for More & Better Information

We Use **Arc Map** with Extensions

* Spatial Analyst
* 3-D Analyst

or

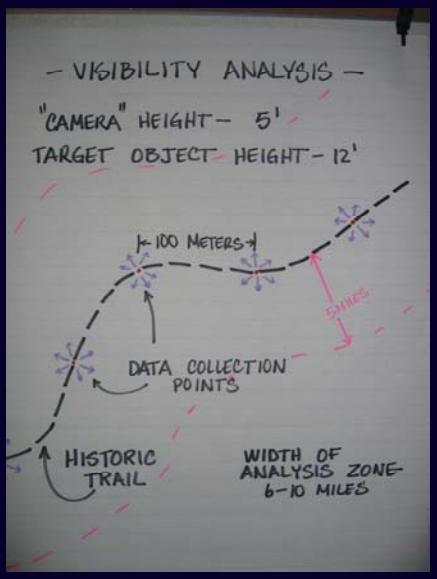
Arc Info to do Visibility Analysis

Information We Need

- We Need to Know What Part of the Landscape is Visible From the Historic Trails for a Distance of About 2 Miles

What Viewshed Analysis Does

- Viewshed Analysis Determines What's Visible From a Point or Series of Points on a Map



Here's What the Result Looks Like

Another Example

Viewshed Analysis From a Single Point

Viewshed Analysis From a Single Point

Mapping Distance Zones

- This is a good way to identify seldom seen areas within the foreground-middle ground distance zone